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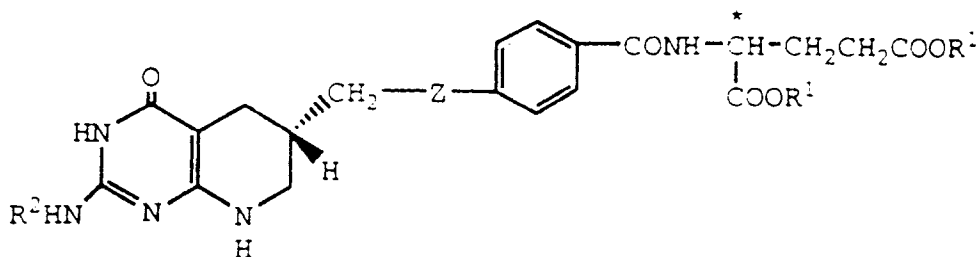
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(54) **5-Deaza-folic acid derivatives and their use as antineoplastics agents.**

(57) 5-Deaza-10-oxo- and 5-deaza-10-thio-5,6,7,8-tetrahydrofolic acid derivatives of formula



wherein

Z is O or S ;

R¹ is H or the same carboxyl protecting group ;

R² is H or an amino protecting group ; and the configuration about the carbon atom designate * is L ;
 useful for treating susceptible neoplasms in mammals.



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EUROPEAN SEARCH REPORT

Application Number

EP 92 31 1445.8

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	JOURNAL OF HETEROCYCLIC CHEMISTRY. vol. 28, no. 4, July 1991, PROVO US pages 977 - 981 SHYAM K. SINGH ET AL 'Synthesis of 10-thia-5-deazafolic acid and 2-desamino-2-oxo-10-thia-5-deazafolic acid' * the whole document *	1,3-5,8	C 07 D 471/04 A 61 K 31/435 C 07 D 211/76 C 07 C 235/22 C 07 F 7/18 (C 07 D 471/04 C 07 D 239:00 C 07 D 221:00)
A	EP-A-0 344 922 (THE TRUSTEES OF PRINCETON UNIVERSITY) * claims *	1-5	
A	EP-A-0 255 228 (THE TRUSTEES OF PRINCETON UNIVERSITY) * claims *	1-5	
P,X	US-A-5 159 079 (HOMER L. PEARCE ET AL) * the whole document *	1--6,8-10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C 07 D C 07 C C 07 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-05-1993	Examiner HENRY J C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P0401)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet -B-

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: 1-6, 8-10



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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-6,8-10 : Final products, their use and preparation and intermediate containing an essential structure part of the final products.
2. Claim 7 : Intermediate which does not contain the essential structure element of the final product.